Workshop Title: Risk & Reward: Small Unmanned Aircraft Systems (sUAS) for Agricultural Producers

Duration: 4hrs

Purpose:
The overall goal of the workshop is to introduce attendees to small unmanned aircraft systems (sUAS). It is estimated that 80% of commercial sUAS users will be in agriculture. This workshop will focus on risk-based trainings for current and future commercial users of this emerging technology. The workshop will include presentations on aircraft systems and a workflow demonstration since most initial users are uneasy about the technology. Participants should achieve an improved understanding of flight regulations, types of platforms & sensors, data processing, potential agricultural uses, and liability issues related to UAS. Participants will also make improved decisions to match the best sUAS with their needs.

Workshop presenters

James Robbins, Ph.D.  Joe Mari Maja, Ph.D.  Rusty Rumley, Ph.D.  Mengmeng Gu, Ph.D.
Univ. of Ark. System  Edisto Research and Education Center, Clemson University  The National Agricultural Law Center  Texas A&M Agrilife

Workshop outline:

Topics:
 a. Liability/risk: (45min) negligence; nuisance/trespass; imagery/privacy; need to license; shooting down a drone; insurance?
 b. Regulations to fly: 45 min
   1. Types of users: Hobby/recreational, Public, Commercial
   2. NOTAM: process & viewing current
   3. Preparation for Remote Pilot Certification (Part 107)
 c. Types of aircraft: 30 min (adv. & disadv. of each)
   1. Rotary
   2. Fixed-wing
 d. Types of sensors (20 min)
 e. Software (30 min)
 f. Flight demonstration (1hr)
   1. Attendees (5) demonstrate (15 min)
   2. We demonstrate the workflow: flight, image capture, and viewing (45 min)
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